

combining the plurality of spread-spectrum channels as a multichannel-spread-spectrum signal;

concatenating a header to the multichannel-spread-spectrum signal, thereby generating a packet-spread-spectrum signal intended for the receiver, the header comprising a header-symbol-sequence signal spread-spectrum processed with a chip-sequence signal; and

transmitting on a carrier frequency using radio waves, the packet-spread-spectrum signal over a communications channel.

27. (Amended) A packet transmitter comprising:

transmitter-memory means for storing input data intended for a receiver, as stored data;

demultiplexer means, coupled to said transmitter memory means, for demultiplexing the stored data into a plurality of sub-data-sequence channels;

spread-spectrum means, coupled to said demultiplexer means, for spread-spectrum processing the plurality of sub-data-sequence signals by a plurality of chip-sequence signals, respectively, thereby generating a plurality of spread-spectrum channels, with each of the plurality of chip-sequence signals different from other chip-sequence signals in the plurality of chip-sequence signals;

combiner means, coupled to said spread-spectrum means, for combining the plurality of spread-spectrum channels as a multichannel-spread-spectrum signal;

header means, coupled to said combiner means, for concatenating a header to the multichannel-spread-spectrum signal, thereby generating a packet-spread-spectrum signal intended for the receiver, the header comprising a header-symbol-sequence signal spread-spectrum processed with a chip-sequence signal; and

transmitter means, coupled to said header means, for transmitting on a carrier frequency using radio waves, the packet-spread-spectrum signal over a communications channel.

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38. (Amended) A packet transmitter comprising:

a transmitter memory for storing input data intended for a receiver, as stored data;

a demultiplexer, coupled to said transmitter memory, for demultiplexing the stored data into a plurality of sub-data-sequence channels;

spread-spectrum means, coupled to said demultiplexer, for spread-spectrum processing the plurality of sub-data-sequence signals by a plurality of chip-sequence signals, respectively, thereby generating a plurality of spread-spectrum channels, with each of the plurality of chip-sequence signals different from other chip-sequence signals in the plurality of chip-sequence signals;

a combiner, coupled to said spread-spectrum means, for combining the plurality of spread-spectrum channels as a multichannel-spread-spectrum signal;

a header device, coupled to said combiner, for concatenating a header to the multichannel-spread-spectrum signal, thereby generating a packet-spread-spectrum signal intended for the receiver, the header comprising a header-symbol-sequence signal spread-spectrum processed with a chip-sequence signal; and

a transmitter subsystem, coupled to said header device, for transmitting on a carrier frequency using radio waves, the packet-spread-spectrum signal over a communications channel.

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#### REMARKS

The July 9, 2002 Office Action has been carefully considered, and the amendments above together with the comments that follow are being presented in a bona fide effort to address all issues